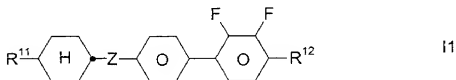
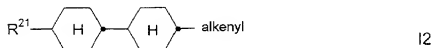


Claims:

1. A liquid-crystalline medium based on a mixture of polar compounds having negative dielectric anisotropy, comprising at least one compound of formula I1




and at least one compound of formula I2



in which

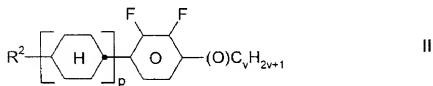
R^{11} , R^{12} and R^{21} are each, independently of one another, alkyl or alkenyl having up to 15 carbon atoms which is unsubstituted, monosubstituted by CN or CF_3 or at least monosubstituted by halogen, where one or more CH_2 groups in these radicals may also, in each case independently of one another, be

replaced by $-O-$, $-S-$, , $-C\equiv C-$, $-CO-$, $-CO-O-$, $O-CO-$ or $-O-CO-O-$ in such a way that O atoms are not linked directly to one another,

Z is $-C_2H_4-$, $-CH=CH-$, $-CF_2O-$, $-OCF_2-$ or a single bond, and

alkenyl is straight-chain alkenyl having 2-6 carbon atoms.

- 5 2. The medium according to claim 1, additionally comprising at least one compound of formula II



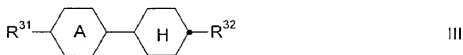
10 in which

R^2 is independently as defined for R^{11} , R^{12} and R^{21} ,

15 p is 1 or 2, and

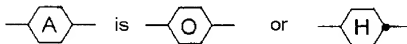
v is 1 to 6.

- 20 3. The medium according to claim 1, additionally comprising at least one compound of formula III



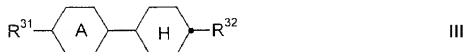
in which

25 R^{31} and R^{32} are each, independently of one another, a straight-chain alkyl or alkyloxy radical having 1-12 carbon atoms, and



30

4. The medium according to claim 2, additionally comprising at least one compound of formula III

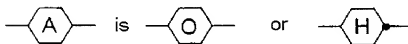


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in which

- R^{31} and R^{32} are each, independently of one another, a straight-chain alkyl or alkyloxy radical having 1-12 carbon atoms, and

10



5. The medium according to claim 1, comprising at least three compounds of formulae I1 or I2.

15

6. The medium according to claim 1, having a proportion of compounds of formula I1 in the total mixture of at least 10% by weight.

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7. The medium according to claim 1, having a proportion of compounds of formula I2 in the total mixture of at least 5% by weight.

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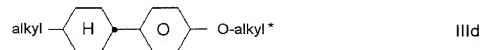
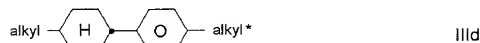
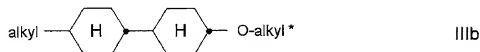
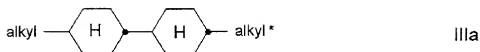
8. The medium according to claim 2, having a proportion of compounds of formula II in the total mixture of at least 20% by weight.

30

9. The medium according to claim 3, having a proportion of compounds of formula III in the total mixture of at least 5% by weight.

10. The liquid-crystalline medium according to claim 3, comprising at least one compound of formulae IIIa to IIId:

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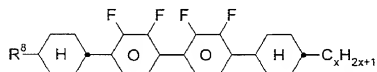
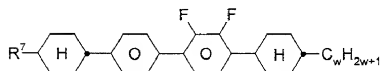


in which

5 alkyl and
alkyl* are each, independently of one another,
straight-chain alkyl having 1-6 carbon
atoms.

10 11. The liquid-crystalline medium according to claim
10, comprising at least one compound of formula
IIIa, at least one compound of formula IIIb, or a
mixture thereof.

15 12. The liquid-crystalline medium according to claim 1,
additionally comprising at least one compound of
the formulae



in which

R⁷ and R⁸ are each, independently of one another,
as defined for R¹¹, R¹² and R²¹, and

5 w and x are each, independently of one another,
from 1 to 6.

13. The liquid-crystalline medium according to claim 2,
comprising

10 10-40% by weight of at least one compound of
formula I1,

5-30% by weight of at least one compound of
formula I2,

15 and

20-70% by weight of at least one compound of
formula II.

20 14. An electro-optical display having active matrix
addressing based on ECB effect or IPS effect,
comprising as a dielectric, a liquid-crystalline
medium according to claim 1.

25 15. An electro-optical display comprising, as a
dielectric, a liquid-crystalline medium according
to claim 1.

30 16. An electro-optical display comprising, as a
dielectric, a liquid-crystalline medium according
to claim 2.

35 17. An electro-optical display comprising, as a
dielectric, a liquid-crystalline medium according
to claim 3.